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Leu Glu Ile Thr Tyr Val Gln Arg Asn Tyr Asp Leu Ser Phe Leu Lys
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Thr Ile Gln Glu Val Ala Gly Tyr Val Leu Ile Ala Leu Asn Thr Val
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Glu Arg Ile Pro Leu Glu Asn Leu Gln Ile Ile Arg Gly Asn Met Tyr
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Tyr Glu Asn Ser Tyr Ala Leu Ala Val Leu Ser Asn Tyr Asp Ala Asn
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Lys Thr Gly Leu Lys Glu Leu Pro Met Arg Asn Leu Gln Glu Ile Leu
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Ser Cys Pro Asn Gly Ser Cys Trp Gly Ala Gly Glu Glu Asn Cys Gln
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Lys Leu Thr Lys Ile Ile Cys Ala Gln Gln Cys Ser Gly Arg Cys Arg
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Gly Ala Phe Gly Thr Val Tyr Lys Gly Leu Trp Ile Pro Glu Gly Glu
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Lys Val Lys Ile Pro Val Ala Ile Lys Glu Leu Arg Glu Ala Thr Ser
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Pro Lys Ala Asn Lys Glu Ile Leu Asp Glu Ala Tyr Val Met Ala Ser
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Trp Cys Val Gln Ile Ala Lys Gly Met Asn Tyr Leu Glu Asp Arg Arg
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Leu Val His Arg Asp Leu Ala Ala Arg Asn Val Leu Val Lys Thr Pro
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Gln His Val Lys Ile Thr Asp Phe Gly Leu Ala Lys Leu Leu Gly Ala
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Glu Glu Lys Glu Tyr His Ala Glu Gly Gly Lys Val Pro Ile Lys Trp
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Met Ala Leu Glu Ser Ile Leu His Arg Ile Tyr Thr His Gln Ser Asp
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Lys Pro Tyr Asp Gly Ile Pro Ala Ser Glu Ile Ser Ser Ile Leu Glu
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Gly Leu Gln Ser Cys Pro Ile  Lys Glu Asp Ser Phe  Leu Gln Arg
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Tyr Ser Ser Asp Pro Thr Gly  Ala Leu Thr Glu Asp  Ser Ile Asp
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Asp Thr Phe Leu Pro Val Pro  Glu Tyr Ile Asn Gln  Ser Val Pro
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Lys Arg Pro Ala Gly Ser Val  Gln Asn Pro Val Tyr  His Asn Gln
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Pro Leu Asn Pro Ala Pro Ser  Arg Asp Pro His Tyr  Gln Asp Pro
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Pro Thr Cys Val Asn Ser Thr  Phe Asp Ser Pro Ala  His Trp Ala
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Gln Lys Gly Ser His Gln Ile  Ser Leu Asp Asn Pro  Asp Tyr Gln
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Gln Asp Phe Phe Pro Lys Glu  Ala Lys Pro Asn Gly  Ile Phe Lys
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Cys Ala Val Glu Ser Tyr Pro Gln Pro Glu Ile Ser Trp Thr Arg Asn
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Lys Ile Leu Ile Lys Leu Phe Asp Thr Arg Tyr Ser Ile Arg Glu Asn
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Tyr Cys Cys Thr Ala Asn Asn Gly Val Gly Gly Ala Val Glu Ser Cys
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Gly Ala Leu Gln Val Lys Met Lys Pro Lys Ile Thr Arg Pro Pro Ile
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Asn Val Lys Ile Ile Glu Gly Leu Lys Ala Val Leu Pro Cys Thr Thr
    130                 135                 140
Met Gly Asn Pro Lys Pro Ser Val Ser Trp Ile Lys Gly Asp Ser Pro
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Leu Arg Glu Asn Ser Arg Ile Ala Val Leu Glu Ser Gly Ser Leu Arg
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Ile His Asn Val Gln Lys Glu Asp Ala Gly Gln Tyr Arg Cys Val Ala
            180                 185                 190
Lys Asn Ser Leu Gly Thr Ala Tyr Ser Lys Val Val Lys Leu Glu Phe
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Glu Val Phe Ala Arg Ile Leu Arg Ala Pro Glu Ser His Asn Val Thr
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Phe Gly Ser Phe Val Thr Leu His Cys Thr Ala Thr Gly Ile Pro Val
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Pro Thr Ile Thr Trp Ile Glu Asn Gly Asn Ala Val Ser Ser Gly Ser
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Ile Gln Glu Ser Val Lys Asp Arg Val Ile Asp Ser Arg Leu Gln Leu
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Phe Ile Thr Lys Pro Gly Leu Tyr Thr Cys Ile Ala Thr Asn Lys His
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Gly Glu Lys Phe Ser Thr Ala Lys Ala Ala Ala Thr Ile Ser Ile Ala
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Glu Trp Ser Lys Pro Gln Lys Asp Asn Lys Gly Tyr Cys Ala Gln Tyr
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Arg Gly Glu Val Cys Asn Ala Val Leu Ala Lys Asp Ala Leu Val Phe
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Leu Asn Thr Ser Tyr Ala Asp Pro Glu Glu Ala Gln Glu Leu Leu Val
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    Ile Ala Arg Gln Val Ala Ala Gly Met Ala Tyr Leu Ser Glu Arg Lys
    705                 710                 715                 720
    Phe Val His Arg Asp Leu Ala Thr Arg Asn Cys Leu Val Gly Glu Asn
                    725                 730                 735
    Met Val Val Lys Ile Ala Asp Phe Gly Leu Ser Arg Asn Ile Tyr Ser
                740                 745                 750
    Ala Asp Tyr Tyr Lys Ala Asn Glu Asn Asp Ala Ile Pro Ile Arg Trp
                755                 760                 765
    Met Pro Pro Glu Ser Ile Phe Tyr Asn Arg Tyr Thr Thr Glu Ser Asp
        770                 775                 780
```

```
Val Trp Ala Tyr Gly Val Val Leu Trp Glu Ile Phe Ser Tyr Gly Leu
785                 790                 795                 800
Gln Pro Tyr Tyr Gly Met Ala His Glu Glu Val Ile Tyr Tyr Val Arg
                805                 810                 815
Asp Gly Asn Ile Leu Ser Cys Pro Glu Asn Cys Pro Val Glu Leu Tyr
            820                 825                 830
Asn Leu Met Arg Leu Cys Trp Ser Lys Leu Pro Ala Asp Arg Pro Ser
            835                 840                 845
Phe Thr Ser Ile His Arg Ile Leu Glu Arg Met Cys Glu Arg Ala Glu
    850                 855                 860
Gly Thr Val Ser Val
865
```

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<210>  9
<211>  25
<212>  DNA
<213>  primer
<400>  9
cgtcctgcgt gagcctggat taatc                                      25
```

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<211>  25
<212>  DNA
<213>  primer
<400>  10
gcctggatta atcatgagag agctc                                      25
```

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<210>  11
<211>  42
<212>  DNA
<213>  primer
<400>  11
cgaggcctgt cttcaacctt agacactcac agttccctct gc                   42
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<211>  27
<212>  DNA
<213>  primer
<400>  12
cggcctgtgc cagactgcca catctag                                    27
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<210>  13
<211>  32
<212>  DNA
<213>  primer
<400>  13
cgtctaggtg agggttactg ctgctgattc tc                              32
```

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<211>  38
<212>  DNA
<213>  primer
<400>  14
ggttaaccct attcaatgtt attccttgga tactccag                    38


<210>  15
<211>  24
<212>  DNA
<213>  primer
<400>  15
cttccaaaag ctcctgtcat cacc                                   24


<210>  16
<211>  26
<212>  DNA
<213>  primer
<400>  16
ccagtcatgg agtatgtagg tgagac                                 26
```

10

20